

Title (en)
SYSTEM AND METHOD FOR TESTING A SPECIMEN

Title (de)
SYSTEM UND VERFAHREN ZUM TESTEN EINER PROBE

Title (fr)
SYSTÈME ET PROCÉDÉ DE TEST D'UN ÉCHANTILLON

Publication
EP 4253927 A1 20231004 (EN)

Application
EP 23160860 A 20230309

Priority
GB 202204670 A 20220331

Abstract (en)
A system (100) and a method (900) of testing a specimen. The system (100) includes an endcap (102), a plurality of bars (104), a plurality of strain gauges (106), and a gas gun (108). The endcap (102) includes a first surface (202) and a second surface (204) opposite to the first surface (202). The first surface (202) is curved. Each bar (104) is disposed in contact with the second surface (204) of the endcap (102) and extends along a longitudinal axis (LA). Each strain gauge (106) is disposed on a surface (302) of a corresponding bar (104) from the plurality of bars (104). At least one strain gauge (106) is disposed on the surface (302) of each bar (104). The gas gun (108) is configured to fire a specimen (602) towards the first surface (202) of the endcap (102) such that the specimen (602) impacts the first surface (202) at an oblique angle (A1) relative to the longitudinal axis (LA).

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Citation (search report)
• [A] US 5325701 A 19940705 - ZILLIACUS STEPHEN [US]
• [A] EP 0859950 A1 19980826 - EUROP ECONOMIC COMMUNITY [LU]
• [A] EP 3043141 A1 20160713 - ROLLS ROYCE PLC [GB]
• [A] KR 20150132682 A 20151126 - KOREA IND TECH INST [KR]
• [A] MOU HAOLEI ET AL: "Ballistic impact tests and stacked shell simulation analysis of aramid fabric containment system", AEROSPACE SCIENCE AND TECHNOLOGY, ELSEVIER MASSON, FR, vol. 107, 11 November 2020 (2020-11-11), XP086377453, ISSN: 1270-9638, [retrieved on 20201111], DOI: 10.1016/J.AST.2020.106344

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